

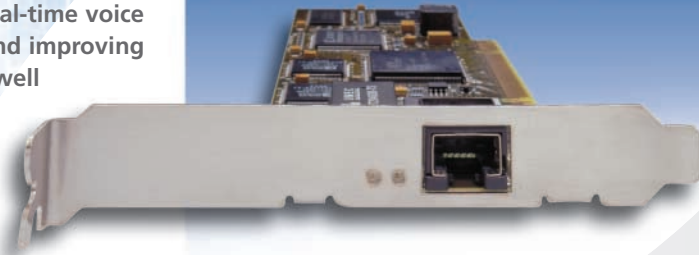


Diva™ Server V-BRI

Most peoples' interaction with PCs is text-based such as email and instant messaging, but human voice is still the most natural way of communicating. Advances in speech recognition technologies and the ubiquity of fixed and mobile telephones now opens up a new world of opportunities for voice based systems.

The Ultimate Voice, Speech and Conferencing Platform

Diva Server V-BRI adapters are key building blocks for enabling these new breeds of voice business applications. Based on the latest PCI standards, each adapter provides connectivity to the telephony network via one ISDN Basic Rate (BRI) interfaces. Powerful Digital Signal Processors (DSP) – one dedicated to each communication channel - ensure real-time voice processing reducing system latency and improving overall system performance. An open and well documented application programming interface (API) combined with support for a broad range of operating systems facilitates development of leading-edge voice business applications.



Key Benefits

World-class voice processing

Diva Server V-BRI adapters provide a full set of voice processing functions including tone detection and generation, voice activity detection and echo cancellation. Handling voice either in PSTN standard coding or in compressed coding allows adaptation to any kind of telephony system. Onboard DSPs perform these complex operations in real-time enhancing overall system performance and lowering implementation cost.

Efficient integration with speech engines

Thanks to supporting full-duplex voice channels, callers can use an application-friendly feature known as "Barge-In". This allows a caller to interrupt speech prompts by speaking over them thereby controlling the pace of the conversation for a more pleasant user experience and better platform utilization. Speech recognition is helped by enhanced echo cancellation (up to 32 ms tail length) and voice activity detection which improve recognition and make better use of host platform resources.

Enhanced Switching and Conferencing support

Diva Server V-BRI adapters support line interconnection and conferencing of calls on a single board as well as across boards within a server. Automatic gain control (AGC) is provided to automatically adjust the signal level of incoming calls for recording at normal levels.

Robust Voice over IP (VoIP) technology

For integrating established voice, speech and conferencing applications with emerging IP-Telephony clients and IP-Phones, Diva Server V-BRI provides key enabling features such as voice packetization into real-time transport protocol (RTP), voice compression (G.726 and GSM), adaptive jitter buffer and comfort noise generation.

Supports Best-of-Breed Applications

The support of standardized software interfaces such as CAPI 2.0 or TAPI as well as an open API (Diva Server SDK) facilitate the development of voice business applications. Common applications include voice portals, speech enabled interactive voice response (IVR) systems and media servers.

Scaleable and flexible

Multiple Diva Server V-BRI adapters can be used in one system as well as in combination with any other Diva Server adapter to meet an organization's communication needs.

High Performance

On-board RISC CPU and DSPs remove performance bottlenecks as well as aiding developers by providing ample hardware resources.

Easy to Install

Diva Server V-BRI adapters conform to Intel and Microsoft Plug and Play standards, eliminating the need to manually configure the server.

Ready to use worldwide

With support for all the multinational ISDN protocols as well as national CAS variants, the Diva Server V-BRI adapters are ready for use virtually anywhere in the world.

5 year warranty

Backed by one of the most extensive warranty agreements in the industry, global presence and an effective support organization.

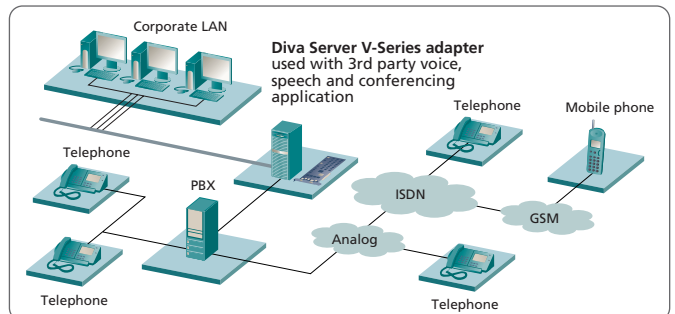
Technical Specifications

Hardware:	<ul style="list-style-type: none"> Active ISDN adapter for Basic Rate Interface (BRI) Bus type: PCI rev. 2.2 (3.3V / 5V) 32-bit RISC CPU, 100 MHz, 131 MIPS 8 MB onboard SDRAM Scaleable to 4 adapters per system I/O Addresses and Interrupt are placed by the system Production Quality: ISO 9002 	<ul style="list-style-type: none"> Plug and Play Interface RJ45 Connector 2 x 65 MHz, 65 MIPS DSP Form factor: Max size of a low profile adapter (as defined by PCI 2.2 specification) Power Down Management 5 year warranty
Power Consumption and Environmental	<ul style="list-style-type: none"> Power consumption: 330 mA @+5 V typ. Operating humidity: 10% to 85% (non-condensing) Maximum tolerance in power supply variation: -5% to +5% 	<ul style="list-style-type: none"> Operating temperature: 10°C to 70°C Storage temperature: 0°C to 70°C
Driver Software	<ul style="list-style-type: none"> Supported operating systems: Windows Server 2003, Windows XP Professional, Windows 2000, Windows NT, Linux, NetWare D-Channel and Signaling Protocols: ETSI-DSS1 (Euro-ISDN), NI-1 (North America National ISDN 1), 1TR6 (Germany), NET3 (Belgium), VN3/4/6 (France), 5ESS (AT&T), 5ESS (Lucent), DMS100 (Nortel), INS-64 (Japan), Australia on-ramp, Q-SIG, External Signaling (transparent D-channel), Network Termination (NT Mode) B-Channel Protocols: Transparent HDLC, Transparent Voice, Synchronous PPP and MLPPP, X.75 (LAPB), X.75/V.42 bis, LAPD, T.30, T.90NL, T.70NL, V.120, X.25, X.31, Rate adaption (56 kbps), V.90, V.42, V.42bis, V.110, V.120, PIAFS 1.0 / 2.0, SDLC Application Interfaces: IDI (ISDN Direct Interface), WAN Miniport, COM Port, CAPI 2.0, TAPI, Linux: IDI, TTY, CAPI 2.0, Netware: IDI, CAPI 2.0, Diva Server API Diagnostic Tools: B-channel and D-channel trace program 	
Voice, Speech and Conferencing Features:	<ul style="list-style-type: none"> DTMF/MF transmission, detection and generation Voice Activity Detection Fax signal detection Full duplex voice 'Barge-In' G.168 echo cancellation, up to 32 ms tail length TAPI support Audio Tap ISDN Supplementary Services <ul style="list-style-type: none"> Number identification services (CLIP, CLIR, COLP, COLR, KEY, MSN, DDI, SUB) Call offering services (TP, CFU, CFB, CFNR) Call completion services (CW, HOLD, ECT) Charging Services (AoC) Three-party conference Large Conference 	<ul style="list-style-type: none"> Special Information Tone (SIT) detection Silence Detection Automatic Gain Control Cross board switching On-board switching and conferencing via line interconnect (call tromboning) VoIP support <ul style="list-style-type: none"> G.711 voice codec (64 kb/s, μ-law, A-law) G.726 voice codec (32 kb/s) GSM voice codec (13 kb/s) G.168 echo cancellation, up to 32 ms tail length Adaptive jitter buffer Voice activity detection (VAD) Comfort noise generation (CNG) Real Time Protocol (RTP framing)
Additional features:	<ul style="list-style-type: none"> Fax group 3 support <ul style="list-style-type: none"> Up to 33.600 bps with each B-channel (send and receive) Fax compression MH, MR, MMR Error Correction Mode (ECM) Fax polling / Fax on demand Fax tone detection Standard, fine, super-fine and ultra-fine resolution 	<ul style="list-style-type: none"> Support for fax class 1 and 2 Fax group 4 support Remote Access (via HDLC, V.90, GSM, V.120, X.75) <ul style="list-style-type: none"> GSM support (V.110) up to 38.400 bps Communicates with analog modems (up to V.90). Up to 56.000 bps with each B-channel

Ordering Information

Product Name	Product Code
Diva Server V-BRI	306-219

National variants might be available. Please contact the Eicon Networks office in your region or look at www.eicon.com for further information.



Corporate headquarters
Eicon Networks Corporation
 9800 Cavendish Blvd 5th Floor
 Montreal Quebec Canada
 H4M 2V9
 Tel: +1 (514) 745-5500
 Fax: +1 (514) 745-5588

Regional sales head offices
Americas:
Eicon Networks Inc.
 Parkway Centre II
 2805 N. Dallas Parkway Suite 200
 Plano, Texas 75093 USA
 Tel: +1 (972) 473-4500
 Fax: +1 (972) 473-4510
 Offices: Dallas, Montreal

Europe, Middle East, Africa:
Eicon Networks (UK) Ltd.
 Kings Chase 107-123 King Street
 Maidenhead Berkshire SL6 1DP
 United Kingdom
 Tel: +44 (0) 1628 641770
 Fax: +44 (0) 1628 641780
 Offices: Barcelona, Bergamo, Stockholm,
 Den Haag, Ljubljana, London, Paris,
 Leonberg, Berlin, Dusseldorf, Munich

Asia Pacific:
 Offices: Beijing, Hong Kong,
 Kuala Lumpur, Shanghai, Sydney